

Message Text

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DRAFT SOVIET REPORT ON MICROBIOLOGY WORKING GROUP

(01.07)

REF: (A) MOSCOW 15458, (B) STATE 168809

1. ON JULY 3 AYKAZYAN GAVE SCICOUNS DRAFT SOVIET REPORT ON MICROBIOLOGY WORKING GROUP (01.07). INFORMAL EMBASSY TRANSLATION AND SUMMARY OF THE SOVIET REPORT FOLLOWS PARA 2 AND 7 BELOW. ORIGINAL POUCHED TO OES/APT FOR SHELDON, REGISTRY NO. 1911752. (WE WILL ALSO ATTEMPT TO HAVE COPY OF SOVIET REPORT HAND CARRIED BACK TO WASHINGTON BY FIRST AVAILABLE EMBASSY TRAVELER.)
2. SOVIET REPORT RECOUNTS THE EXCHANGES WHICH HAVE OCCURRED IN THE MICROBIOLOGY WORKING GROUP SINCE THE LAST S&T JCM. THE REPORT NOTES THAT SOME AREAS OF THE COOPERATION TOUCH ON "INDUSTRIAL INFORMATION" AND IT WAS THEREFORE DECIDED TO EXCLUDE THEM OR TO CHANGE THEIR NAME." REPORT NOTES DECISION TO ESTABLISH NEW PROJECT IN THE FIELD OF "GEOMICROBIOLOGY."
3. FOLLOWING ARE THE MAJOR ACHIEVEMENTS LISTED FOR EACH

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OF THE FIVE PROJECTS OF THE WORKING GROUP:

- 1) SINGLE CELL PROTEIN; EXCHANGE OF SAMPLES OF ACTIVE ETHANOL AND METHANOL YEASTS. WORKING OUT METHODS FOR COMPARATIVE EVALUATION OF SAMPLES AND APPARATUS FOR THE CULTIVATION OF THESE YEASTS, STUDY OF PHYSICAL-BIOCHEMICAL CHARACTERISTICS OF THESE YEASTS. PERFECTION OF METHODS

FOR PRODUCING MICROBE PROTEINS FOR
FOOD USE.

2) ENGINEERING FORMULATION OF MICROBIOLOGICAL PROCESSES
DEVELOPMENT OF A GENERAL THEORY OF BIOREACTORS.
INVESTIGATION OF MODELS OF THE STRUCTURE OF MICRO-
ORGANISM POPULATION. DEVELOPMENT OF A METHOD OF DETER-
MINING THE COEFFICIENT OF MASS TRANSFER OF OXYGEN
AND DISTRIBUTION OF THE TIME OF THE NITROGEN PHASE.
OPTIMAL DESIGN OF THE CASCADE SYSTEM OF FERMENTATION.

3) "GENETICS OF MICROORGANISMS" --
INVESTIGATION OF VARIOUS CULTURES, SAMPLES OF
BACTERIA AND YEAST. STUDY OF THEIR PHYSIOLOGICAL,
BIOCHEMICAL AND GENETIC CHARACTERISTICS. DEVELOPMENT
OF A GENETIC APPROACH TO INCREASING THE PRODUCTIVITY
OF SAMPLES.

4) "REACTIONS CATALYZED BY MICROBIAL ENZYMES" DEVELOPMENT
OF A METHOD OF ISOLATION PURIFICATION, AND STABILIZATION
OF ENZYMES FOR PRODUCTION OF AMINO ACIDS. HYDROLYSIS
OF POLYSACCHARIDES, BIOPHOTOLYSIS OF WATER FOR
PHOTOGRAPHIC AND MEDICAL PURPOSES. INVESTIGATION OF
THE KINETIC LAWS OF REACTIONS OF ENZYMES.

5) MICROBIOLOGICAL MEANS OF INSECT CONTROL: DEVELOPMENT
OF METHODS FOR PRODUCTION OF PREPARATIONS USED AGAINST
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INSECTS HARMFUL TO AGRICULTURE. STUDY OF THE PHYSICAL
AND BIOCHEMICAL PROPERTIES OF THESE MICROORGANISMS,
THEIR SPECTRUM OF ACTION, THE EFFECTIVENESS OF EACH
PREPARATION INDIVIDUALLY AND IN CON-
JUNCTION WITH CHEMICAL INSECTICIDES.

THE REPORT STATES THAT COOPERATION IN THE WORKING GROUP
HAS BEEN "MUTUALLY BENEFICIAL AND MEANINGFUL". THE REPORT
MAKES THE FOLLOWING RECOMMENDATIONS:

1) INCREASE THE NUMBER AND LENGTH OF EXCHANGES. SHORT-
TERM VISITS WILL BE ON "SENDING SIDE PAYS" BASIS AND
LONG TERM VISITS (FROM 2 TO 6-10 MONTHS) WILL BE ON
"RECEIVING SIDE PAYS" BASIS.

2) EXCLUDE FROM PROJECT 5 THE SECTION ON THE STUDY OF
BACTERIA WHICH CAUSE "MILK ILLNESS" IN INSECTS

3) INCLUDE IN PROJECT 4 A NEW SECTION ON "IMMOBILIZING
ENZYMES FOR MEDICAL USE"

4. EMBASSY NOTES THAT SOVIET REPORT DOES NOT MENTION

SERIOUS COMMUNICATION DELAYS WHICH HAVE PLAGUED THIS
WORKING GROUP (REF B) . WE SUGGEST THAT US PROPOSE TO ADD
FOLLOWING SENTENCE EO THE SOVIET REPORT: "ALL FUTURE
COMMUNICATIONS CONCERNING THE MICROBIOLOGY WORKING GROUP
WILL BE TRANSMITTED THROUGH DIPLOMATIC CHANNELS BETWEEN
THE CHAIRMEN OF THE WORKING GROUP AND BETWEEN THE
EXECUTIVE SECRETARIES OF THE S&T AGREEMENT." TOON

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